IN THE SPECIFICATION:

Please amend the specification as shown in Annex B.

REMARKS

Claims 1-8 were pending in the application. Claims 1-8 have been canceled, and claim 9 has been added as shown in Attachment A to advance prosecution and to further particularly point out and distinctly claim the subject matter sought by Applicants.

The amendments to the specification as shown in Annex B are in response to the Examiners objections to the specification as set out in the Office Action.

It respectfully submitted that the above amendments introduce no new matter within the meaning of 35 U.S.C. § 132, and as such, Applicants respectfully request the Examiner to enter the amendments.

Specification Objections

(1) The Examiner objected to the specification for not containing an Abstract of the disclosure.

(2) The Examiner objected to the specification for containing 3 illustrations within the specification, and the text within and describing the figures must be written in English.

(3) The Examiner objected to the specification for containing the phrase ``setting output forms'' on pages 6, 9, 11, and

2

14 as being vague and unclear.

(4) The Examiner objected to the specification for containing the phrase ``the step of S21 of ending the connection to the real-—time information server⅜ , or similar phraseology in the specification on pages 6, 9, 11, and 14 in reference to step S21 or S51 in Figures 1c and 2c, respectively.

(5) The Examiner objected to the specification for containing the phrase ``when given conditions are identical to the conditions set up by the user'' on pages 7, 12, and 17.

(6) The Examiner objected to the specification for containing the phrase ``if a sequence of predetermined steps are completed'' on pages 10 and 14.

(7) The Examiner objected to the specification for containing ``or'' on page 11, line 2.

(8) The Examiner objected to the specification for containing ``other conditions by a user'' on page 11.

(9) The Examiner objected to the specification stating that it should be specified whether the location of the mouse is important when monitoring ``whether the user has operated the right button of the mouse.''

(10) The Examiner objected to the specification stating that ``an'' should be changed to ``the'' on page 11, line 21.

(11) The Examiner objected to the specification stating that ``a monitored picture'' should be changed to ``the monitor'' on page 12, line 1.

(12) The Examiner objected to the specification stating that it

should be specified if the location of the mouse is important when monitoring ``whether the user has operated the left button of the mouse.''

(13) The Examiner objected to the specification for containing the phrase ``provides output forms of various information on the task bar'' on page 13, line 16.

RESPONSE

(1) Applicants kindly thank the Examiner for bringing this to Applicants' attention. Applicants have submitted an Abstract herewith, thus obviating this objection.

(2) Applicants kindly thank the Examiner for bringing this to Applicants' attention. Applicants have amended the specification to remove these illustrations from the specification, amended the specification to properly describe these three illustrations as figures 4-6, and converted these illustrations into figures 4-6. Thus, Applicants kindly request the Examiner to withdraw this objection.

(3) Applicants kindly traverse the Examiner's objection. ``setting output forms'' means that a user sets the displaying type of real-time information to be displayed on a title bar of an active window. For example, a character stream expression, such as an electronic stock market board or a character blinking expression can be displayed on the

4

title bar of an active window. Applicants contend that when one of ordinary skill in the art takes the specification together as a whole, including the figures and examples, one would arrive at this definition.

(4) Applicants kindly thank the Examiner for brining this to Applicants' attention. Each step of S21 and S51 means a step of checking to determine whether the connection to the server has ended. Applicants have amended the specification such that the specification and figures coincide with one another. As such, Applicants kindly request the Examiner to withdraw this objection.

(5) Applicants kindly traverse the Examiner's objection. ``when given conditions are identical to the conditions set up by the user'' means that when a user selects any one of various types of information (i.e. news, stocks, securities, etc.) to be displayed on a title bar of an active window which coincides with the displaying type of the information, ``an alarm such as a sound or picture change'' occurs to allow the user to know that the given conditions coincide with one another. Applicants contend that when one of ordinary skill in the art takes the specification together as a whole, including the figures and examples, one would arrive at this definition.

(6) Applicants kindly traverse the Examiner's objection. ``if a sequence of predetermined steps are completed'' means that after a user logs onto the real-time information server and

5

selects the desired set-up/program options, as set forth and illustrated in the specification, figures, and examples, the first or newly added information displayed on a title bar of an active window can be continuously transferred into another newly active window executed by the user. However, if the user ends the program associated with the real-time information server, then the active window is restored into the original format or state before the user accessed the real-time information server. Applicants contend that when one of ordinary skill in the art takes the specification together as a whole, including the figures and examples, one would arrive at this definition.

(7) Applicants kindly thank the Examiner for bringing this to Applicants' attention. Applicants have amended the specification to remove ``or'' from page 11, line 2. As such, Applicants kindly request the Examiner to withdraw this objection.

(8) Applicants kindly traverse the Examiner's objection. ``other conditions by a user'' means that a user sets the displaying type of information to be displayed on a task bar. Applicants contend that when one of ordinary skill in the art takes the specification together as a whole, including the figures and examples, one would arrive at this definition.

(9) Applicants kindly traverse the Examiner's objection. If a user operates the right button of the mouse on a tray icon,

task bar, or tray clock, depending on the options and display type chosen, the icon, bar, or clock then shows the information for various servers providing information such as news, stocks, securities, etc. Further, the user can select real-time information to be displayed on a title bar of an active window by clicking the right button of the mouse on the tray icon. This can be found on page 3, lines 4-26 and page 4, lines 1-3. Applicants also contend that when one of ordinary skill in the art takes the specification together as a whole, including the figures and examples, one would arrive at this teaching. Additionally to the Examiner's objection on page 13, line 10, on page 13, paragraph 3, the specification states ``At the step S41 of determining whether the user has operated the right button of the mouse, **if the user operates the right button of the mouse on a desired tool bar window or clicks on an icon registered on a tray, then the system controls the type of registered information and real-time display information.** The specification is clear in this particular process, that if the mouse is on a desired tool bar window or on a tray icon and the right button is clicked, the system controls the type of registered information and real-time display information.

(10) Applicants kindly thank the Examiner for bringing this to Applicants' attention. Applicants have amended the

7

specification accordingly. Thus, Applicants kindly request the Examiner to withdraw this objection.

(11) Applicants kindly thank the Examiner for bringing this to Applicants' attention. Applicants have amended the specification accordingly. Thus, Applicants kindly request the Examiner to withdraw this objection.

(12) Applicants kindly traverse the Examiner's objection. On page 12, paragraph 5 states in part, ``At the step S35 of determining whether the user has operated the left button of the mouse, the system displays a menu window containing a variety of menus such as registered information, help information, task bar edition, real-time information service connection, connection end, etc. **such that the user clicks on a desired item in the displayed menu window with the left button of the mouse.**'' The specification is clear in the particular process that if a user clicks the left button of the mouse on a desired item in the displayed menu window, then the system displays a menu window containing a variety of menus including that of registered information, help information, task bar edition, real-time information service connection, connection end, etc. As such, Applicants kindly request the Examiner to withdraw this objection.

(13) Applicants assume that the Examiner is referring to the phrase ``provides output forms of various information on the task bar'' on page 13, line 26, since there is no such

phraseology used on page 13, line 16. If Applicants assume correctly, Applicants kindly traverse the Examiner's objection. ``provides output forms of various information on the task bar'' means that a user sets the displaying type of information to be displayed on a task bar. Applicants contend that when one of ordinary skill in the art takes the specification together as a whole, including the figures and examples, one would arrive at this definition.

Claim Objections

The Examiner objected to claims 2-4 and 7 due to informalities in which ``an'' should be changed to ``the'', as stated in the Office Action.

RESPONSE

Claims 2-4 and 7 have been canceled, thus rendering the above objection moot. As such, Applicants kindly ask the Examiner to withdraw this objection.

Rejections Under 35 U.S.C. § 112, 2nd Paragraph

The Examiner rejected claims 2, 4, and 7 as being indefinite and as being incomplete for omitting essential elements.

RESPONSE

Claims 2, 4, and 7 have been canceled, thus rendering the above

rejection moot. As such, Applicants kindly ask the Examiner to withdraw this rejection.

Rejection Under 35 U.S.C. 103(a)

The Examiner rejected claim 1 as being obvious over Straub, et al. (U.S. Patent 6,091,411) in view of Lambiase (U.S. Patent 6,618,477). Further, the Examiner rejected claims 2-8 as being obvious over Straub, et al. (U.S. Patent 6,091,411) in view of Lambiase (U.S. Patent 6,618,477) in further view of Hewlett Packard LaserJet Document Assistant.

RESPONSE

Claims 1-8 have been cancelled, thus rendering the above rejections moot. As such, Applicants kindly ask the Examiner to withdraw this rejection.

NEWLY SUBMITTED CLAIMS

Newly submitted claim 9 is directed towards part of the disclosed and taught subject matter within this application; that being of **a method for displaying real-time information on the title bar of an active window, which can be continuously transmitted into the title bar of a newly activated window by a user**. Newly submitted claim 9 is asserted to be patentable over the prior art of record for the following reasons: If a user has configured the program of the current invention to display real-time information on

10

the title bar of an open window in a Windows based Operating System, as claimed in claim 9, then if a new window is opened within the Windows based Operating System, the real-time information will be displayed on the title bar of this newly opened window.

The U.S. Supreme Court in *Graham v. John Deere Co.*, 148 U.S.P.Q. 459 (1966) held that non-obviousness was determined under § 103 by (1) determining the scope and content of the prior art; (2) ascertaining the differences between the prior art and the claims at issue; (3) resolving the level of ordinary skill in the art; and, (4) inquiring as to any objective evidence of non-obviousness.

To establish a *prima facie* case of obviousness, the Examiner must establish: (1) that some suggestion or motivation to modify the references exists; (2) a reasonable expectation of success; and (3) that the prior art references teach or suggest all the claim limitations. Amgen, Inc. v. Chugai Pharm. Co., 18 USPQ2d 1016, 1023 (Fed. Cir. 1991); In re Fine, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988); In re Wilson, 165 USPQ 494, 496 (C.C.P.A. 1970).

Further, the Examiner needs to show basis for combining the references to properly set forth a *prima facie* case of obviousness. The combination of the references taught every element of the claimed invention, however without a motivation to combine, a rejection based on a *prima facie* case of obvious was held improper; In re Rouffet, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir. 1998). The level of skill in the art cannot be relied upon to provide the suggestion to combine references. Al-Site Corp. v. VSI

11

<u>Int'l Inc.</u>, 174 F.3d 1308, 50 USPQ2d 1161 (Fed. Cir. 1999).
(Emphasis added) See MPEP 2143.01.

Straub, et al. (U.S. Patent 6,091,411) discloses the use of multi-media resources for enhancing displays in a graphical user interface to an operating system of a computer according to a topic of a theme. Further, Straub, et al. does not disclose or teach the displaying of real-time information within a title bar of an activated window. Straub merely discloses **the use of a ticker pane occupying an area running the length of the display for displaying theme related information**. See column 13 lines 18-20, as the Examiner pointed out in the Office Action. Applicants contend that Straub does not teach or disclose the current invention in whole, or in part.

Lambiase (U.S. Patent 6,618,477) discloses **a system and method for non-intrusively displaying telephone call information to a user being used with an existing telecommunications system**. In particular, the system and method disclosed in the Lambiase reference **is for non-intrusively displaying a calling party's information to a user or agent at an agent station**, for example, by displaying the calling party information in the title bar of an active window displayed at the agent's workstation. The system and method are triggered if an event processor is started, then the display function of an external module binds with the display information script after the external module is loaded. When a

12

telephony event such as a telephone call occurs, the display information script is processed and the display information script obtains event information from the handle by detecting the handle value of the telephony event to be displayed, which then displays a text on the agent's operating system using a display function.

The Lambiase reference does not remedy the inadequacies of the Straub, et al. reference. A major difference in the Lambiase reference and the current invention is that the Lambiase reference discloses a system that detects a handle value of a working active window and transmits the information relating to a telephone call using the detected handle value on the title bar to the title bar. However, the present invention has a different handle value of the working active window.

When a user opens an active window of a Window detector, real-time information is displayed on the title bar upper of the window detector. If the user clicks a new window of a control board, the information transmitted to the title bar of the detector is displayed continuously on the title bar of the new active window of the control board. Even if the above-mentioned events occur repeatedly, the information transmitted is still displayed continuously on the newly opened active window. As such, Applicants contend that Lambiase does not teach or disclose the current invention in whole, or in part.

The Hewlett Packard reference discloses that if a program is installed in a client, an icon including information for the program is produced on the tray. However, if a program of the present

13

invention is installed in the client, an icon including information for various servers providing information such as news, stocks, securities, etc. is produced on the tray. In other words, if a user clicks the icon, the icon of the present invention displays not control or help menus of the program installed in the client, but information for various servers providing information such as news, stocks, securities, etc. As such, Applicants contend that the Hewlett Packard reference does not teach or disclose the current invention in whole, or in part.

CONCLUSION

In light of the foregoing, Applicants submit that the application is in condition for allowance. If the Examiner believes the application is not in condition for allowance, Applicants respectfully request that the Examiner contact the undersigned attorney if it is believed that such contact will expedite the prosecution of the application.

Respectfully submitted,

NATH & ASSOCIATES PLLC

By: _____
Gary M. Nath
Registration No. 26,965
Marvin C. Berkowitz
Registration No. 47,421
Customer No. 20529

Date: June ___4___, 2004
NATH & ASSOCIATES PLLC
1030th Street, NW - 6th Floor

14

Washington, D.C. 20005
GMN/MCB/JNR:AMENDpreml

ANNEX B

Including:

    a)   Amendment to page 4, after line 20;

    b)   Amendment to page 4, line 24 - page 6, line 21;

    c)   Amendment to page 9, lines 13-19;

    d)   Amendment to page 10, line 3 - page 12, line 2;

    e)   Amendment to page 14, line 5 - page 16, line 10.

On page 4, after line 20, please insert the following:

Fig. 4 is Example 1 of information displayed in real time on a title bar of an active window.

Fig. 5 is Example 2 of information displayed in real time on a task bar of a Windows screen.

Fig. 6 is Example 3 of information displayed in real time on a tray clock of a Windows screen.

On page 4, line 24 – page 6, line 20, please amend the specification as follows:

Figs. 1a, 1b and 1c are flowcharts illustrating the operation of a real-time information service system which displays information on a title bar of a Windows screen of a personal computer in accordance with the preferred embodiment of the present invention. ~~The below example 1~~ Example 1 shows the display of information on the title bar of the Windows screen by the real-time information service system of the present invention.

~~EXAMPLE 1~~
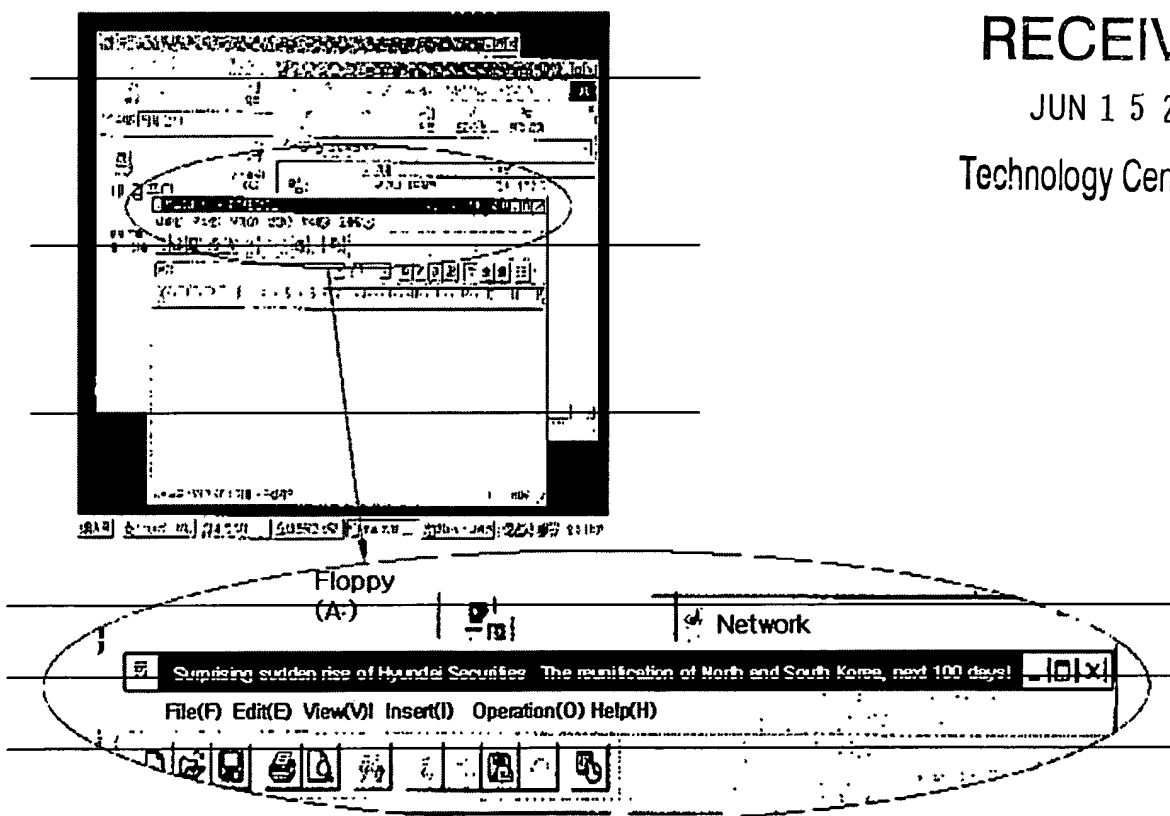
As in the example 1, information is sent and displayed in real time on the title bar. To this end, the real-time information service system of the present invention is

programmed to perform the following steps, or the step S1 of registering a real-time information service icon on a tray of a Windows system, the step S2 of setting up items to be displayed on the title bar and other conditions by a user, the step S3 of entering an identification (ID) and password in a real-time information server, the step S6 of monitoring task change and window transition events, the step S7 of detecting variations in an active window, the step S8 of performing processes corresponding respectively to the detected variations in the active window, the step S9 of receiving a variety of real-time information from the real-time information server, the step S10 of searching for the active window and extracting a handle value corresponding to the searched window, the step S11 of displaying the information received from the real-time information server on the title bar of the active window with the extracted handle value according to the conditions set up by the user, the steps S12 and S13 of determining whether the user has clicked on the registered real-time information service icon on the tray, the step S14 of displaying a menu window, the step S15 of selecting registered information or help information in the displayed menu window, the step S16 of outputting a preset message, the step S20 of editing the contents of the title bar, the step S25 of setting output forms, the step S21 ~~of ending the connection to the real-time information server~~ <u>of determining if the connection to the server has ended</u>, the step S24 of, if the connection to the real-time information server is not ended, returning to the above step S6 of monitoring the task change and window transition events, and the steps S22 and S23 of, if the connection to the real-time information server is ended, ending as associated program and restoring the current values to the original values. By performing these steps, the real-time

2

information service system can display a variety of information and data from the real-time information server on the title bar of the active window of the Windows in real time.

On page 9, lines 13-19, please amend paragraph 5 as shown:

At the step S21 ~~of ending the connection to the real-time information server~~ of determining if the connection to the real-time information server has ended, if the user ends the connection to the real-time information server under the condition that any output form is not provided at the above step S20 of editing the contents of the title bar, then the system ends an associated program. However, unless the user ends the connection to the real-time information, the system returns to the above step S6 of monitoring the task change and window transition events.

On page 10, line 3 – page 12, line 2, please amend the specification as follows:

At the steps S22 and S23 of, if the connection to the real-time information server is ended, ending the associated program and restoring the current values to the original values, if a sequence of predetermined steps are completed, then the system ends the associated program and restores the current values to the original values.

Figs. 2a, 2b and 2c are flowcharts illustrating the operation of the real-time information service system which displays information on a task bar of a Windows screen of a personal computer in accordance with the preferred embodiment of the present invention. ~~The below example 2~~ Example 2 shows the display of information on the task bar of the Windows screen by the real-time information service system of the present invention.

~~EXAMPLE 2~~
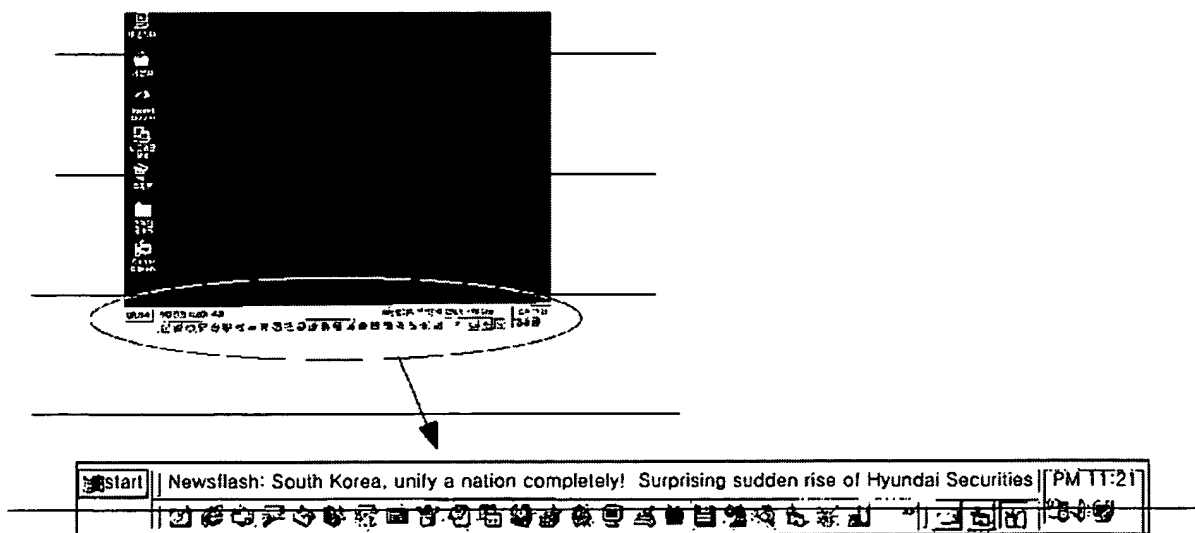
As in the example 2, information is sent and displayed in real time on the task bar. To this end, the real-time information service system of the present invention is programmed to perform the following steps, ~~or the~~ the step S30 of creating an additional tool bar window on the

1

task bar, the step S31 of setting up items to be displayed on the task bar and other conditions by a user, the step S32 of entering an ID and password in a real-time information server, the steps S33 and S34 of logging in to the real-time information server, the step S35 of determining whether the user has operated the left button of a mouse, the step S36 of gaining access to the real-time information server and providing detailed information from the server to the screen, the step S37 of receiving a variety of real-time information from the real-time information server, the step S40 of displaying the information received from the real-time information server on the task bar according to the conditions set up by the user, the step S41 of determining whether the user has operated the right button of the mouse, the step S42 of displaying a menu window, the step S43 of selecting registered information or help information in the displayed menu window, the step S44 of outputting a preset message, the step S50 of editing the contents of the task bar, the step S55 of setting output forms, the step S51 of ~~ending the connection to the real-time information server~~ determining if the connection to the real-time information server has ended, the step S52 of, if the connection to the real-time information server is not ended, returning to the above step S35 of determining whether the user has operated the left button of the mouse, the steps S53 and S54 of, if the connection to the real-time information server is ended, ~~ending an~~ ending the associated program and restoring the current values to the original values. By performing these steps, the real-time information service system can display a variety of information and data from the real-time information server on the task bar in real time.

At the step S30 of creating the additional tool bar window on the task bar, the system creates the additional tool bar window on the bottom of ~~a monitored picture~~ the monitor and, in turn, the task bar above the tool bar window.

2

At the step S51 of ~~ending the connection to the real-time information server~~ <u>determining if the connection to the real-time information server has ended</u>, if the user ends the connection to the real-time information server under the condition that any output form in not provided at the above step S50 of editing the contents of the task bar, then the system ends an associated program. However, unless the user ends the connection to the real-time information, the system returns to the above step S35 of determining whether the user has operated the left button of the mouse.

At the step S52 of, if the connection to the real-time information server is not ended, returning to the above step S35 of determining whether the user has operated the left button of the mouse, the system acquires real-time information from the real-time information server and determines whether the user has operated the left button of the mouse.

At the steps S53 and S54 of, if the connection to the real-time information server is ended, ending the associated program and restoring the current values to the original values, if a sequence of predetermined steps are completed, then the system ends the associated program and restores the current values to the original values.

Figs. 3a and 3b are flowcharts illustrating the operation of the real-time information service system which displays information on a tray clock of a Windows screen of a personal computer in accordance with the preferred embodiment of the present invention. ~~The below example 3~~ <u>Example 3</u> shows the display of information on

1

EXAMPLE 3

Present
Exchange Rate 1120.52 won
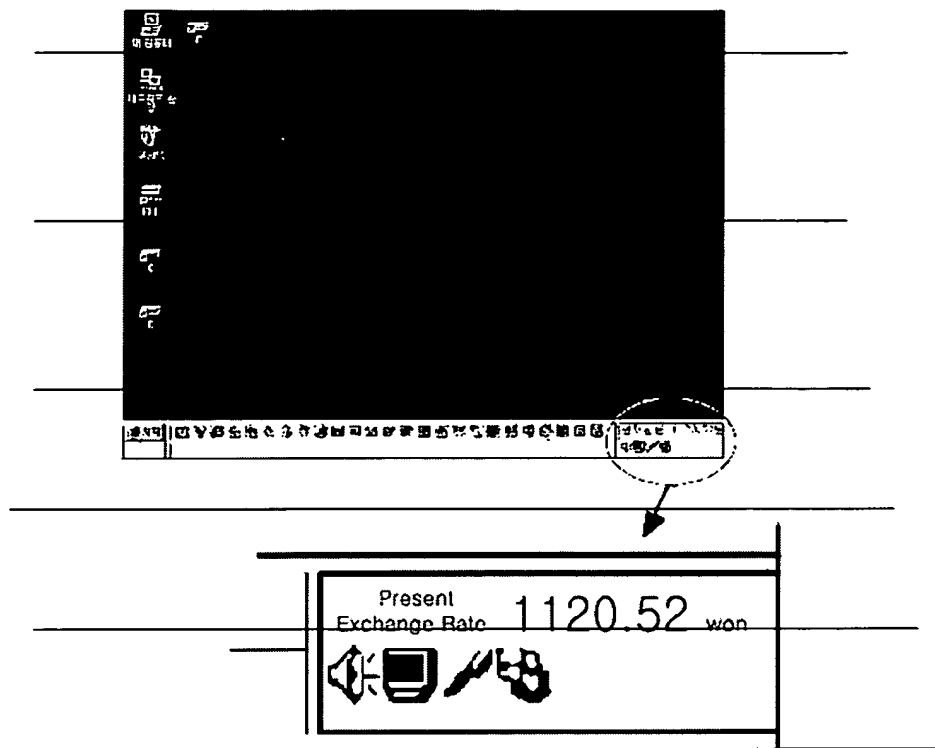
As in the example 3, information is sent and displayed in real time on the tray clock. To this end, the real-time information service system of the present invention is programmed to perform the following steps, or the step S60 of setting up items to be displayed on the tray clock and other conditions by a user, the step S61 of entering an ID and password in a real-time information server, the steps S62 and S63 of logging in to the real-time information server, the step S64 of receiving a variety of real-time information from the real-time information server, the step S65 of displaying the information received from the real-time information server on the tray clock, the step S70 of determining whether a mouse is positioned on the tray clock, the step S77 of describing details of an

2

item currently displayed on the tray clock in a Windows tool description section, the step S71 of determining whether the user has double-clicked on the tray clock with the left button of the mouse, the step S76 of executing Windows date, time and registered information programs, the step S72 of determining whether the user has clicked on the tray clock with the left button of the mouse, the step S73 of ending a tray system, and the steps S74, S75 and S76 of executing and ending general information query and transaction programs. By performing these steps, the real-time information service system can display a variety of information and data from the real-time information server on the tray clock in real time.